



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: CLINE, Harvey E.  
Title: SYSTEM AND METHOD FOR MEASURING FLUID VOLUMES IN BRAIN IMAGES  
Serial No.: 10/608,842  
Art Unit: TBD  
Filing Date: June 26, 2003  
Examiner: TBD  
Date:

### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O Box 1450  
Alexandria, VA 22313-1450

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98.

- [ ] 1. A list of documents on Form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

This paper is submitted in accordance with:

- [X] 2. 37 CFR 1.97(b): [within three months of national, non-CPA filing, prior to first Office Action, on the merits, or prior to first office action after filing an RCE]
- [ ] 3. 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and
- [ ] a. The required Certification made in item 5 below; or
- [ ] b. The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

By Adrienne Fagan  
Adrienne Fagan

Date: August 20, 2003

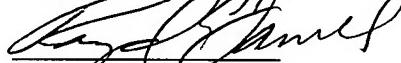
- [ ] 4. 37 CFR 1.97(d): [on or before issue fee payment]; and
- The required Certification is stated in item 5 below; and
  - The \$180.00 fee specified in 37 C.F.R. 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.
- [ ] 5. Certification
- [ ] a. Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
- [ ] b. No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.

[ ] 6. Payment of all applicable fees:

Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. \_\_\_\_\_. Enclosed is a check in the amount of \$\_\_\_\_\_ in payment of all applicable fees associated with the submittal of this Information Disclosure Statement.

This document is submitted in duplicate.

Respectfully submitted,



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REF/jjc/af



Sheet 1 of 1

Form PTO-1470 & 1470A INFORMATION DISCLOSURE CITATION IN AN APPLICATION  (Use several sheets if necessary)		Docket Number (Optional) 29315 (1306-14)	Application Number 10/608,842			
		Applicant Cline, Harvey E.				
		Filing Date June 26, 2003	Group Art Number TBD			
U.S. PATENT DOCUMENTS						
Examiner Initial		Date	Name	Class	Subclass	Filing Date if Appropriate
	6,509,736	1/21/2003	Zhu			
	6,438,403	8/20/2002	Cline et al.			
	6,400,152	6/4/2002	Cline et al.			
	4,719,585	1/12/1988	Cline et al.			
	4,751,643	6/14/88	Lorensen et al			
FOREIGN PATENT DOCUMENTS						
		Date	Country	Class	Subclass	Translation Yes      No
OTHER DOCUMENTS						
Cline, et al. "Magnetic Resonance Segmentation with the <i>Bubble Wave Algorithm</i> ", ????						
C.R. Jack, Jr., M.D., et al. "Antemortem MRI findings correlate with hippocampal neuropathology in typical aging and dementia," Neurology 58:750-757 (March (1 of 2) 2002).						
C.R. Jack, Jr., M.D., et al. "Prediction of AD with MRI-based hippocampal volume in mild cognitive impairment," Neurology 52:1397-1402 (April (2 of 2) 1999).						
Kohn, Mark I., et al. "Analysis of Brain and Cerebrospinal Fluid Volumes with MR Imaging," Part I Methods, Reliability, and Validation <sup>1</sup> , Radiology, 178(1):115-22 January 1991.						
Tanna, NK., et al., "Analysis of Brain and Cerebrospinal Fluid Volumes with MR Imaging: Impact on PET Data Correction for Atrophy, Part II. Aging and Alzheimer Dementia <sup>1</sup> ," Radiology 178(1):123-30 January 1991.						
Fox, Nick C. et al. "Using Serial Registered Brain Magnetic Resonance Imaging to Measure Disease Progression in Alzheimer Disease," ARCH NEUROL. 57(3):339-44 March 2000.						
A.M.J. MacLullich, et al., "Intracranial capacity and brain volumes are associated with cognition in healthy elderly men," Neurology 59:169-174 July (2 of 2) 2002.						
Petersen, R.C., Ph.D. et al. "Memory and MRI-based hippocampal Volumes in Aging and AD," American Academy of Neurology, 54:581-587 February (1 of 2) 2000.						
Monroe-Kellie Model, website citation.						
Examiner			Date Considered			
Examiner: Initial if citation considered, whether or nor citation is in conformance with MPEP §609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.						